MINI-PTZ-23X

23X ZOOM ANALOGUE PTZ CAMERA

User's Manual

V1.0 10 / 2013

ENHANCE YOUR DVR WITH OUR WIDE RANGE OF QVIS CAMERAS

OUR PRODUCTS ARE FULLY TESTED TO WORK TOGETHER

DONT SETTLE FOR LESS,
ALL OUR PRODUCTS CARRY QVIS LOGOS

Table of Contents

1 FEATURES AND FUNCTIONS 1

1.1 General Introduction 1

1.2 Features 1

1.2.1 On-Screen Menu 1
1.2.2 Proportional Pan and Tilt 1
1.2.3 On-screen Tips 1
1.2.4 Preset Setup and Call 1
1.2.5 Auto Scan 1
1.2.6 Auto Touring 2
1.2.7 Auto Pattern 2
1.2.8 Privacy Masking 2
1.2.9 Auto Flip 2
1.2.10 Self-diagnosis 2
1.2.11 Day/Night Mode (B/W & Color Mode) 2
1.2.12 Auto Focus 2
1.2.13 Backlight Compensation 2
1.2.14 Pan Tilt and Zoom 2
1.2.15 3D Intelligent Location 3
1.2.16 Idle Status 3
1.2.17 Image Stabilizer/Flip 3

2 MENU 4

2.1 Screen Menu Index 4

2.2 Self-diagnosis System Information 5

2.3 Main Menu 5

2.4 Menu Operation 6

2.4.1 System Information 6
2.4.2 Display Setting 7
2.4.3 Camera Setting 8
2.4.4 Function Setting 12
2.4.5 Alarm Setup 19

2.5 Abnormal Phenomenon Operation 19

2.5.1 Restore to Factory Default Setup 19
2.5.2 Irregular PTZ Movement 19

3 CABLE CONNECTION 20

3.1 Combination Cable Connection 20

4 FAQ 21

4.1 Daily Maintenance 21

4.2 Problems and Solutions 21

Welcome

Thank you for purchasing the **MINI-PTZ-23X PTZ** camera.

This user’s manual is designed to be a reference tool for the installation and operation of your system.

Here you can find information about the corresponding IP camera’s features and functions, as well as a detailed installation method.

Before installation and operation please read the following safeguards and warnings carefully!

Important Safeguards and Warnings

1．Electrical safety

- All installation and operation here should conform to your local electrical safety codes.
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.
- We are not liable for any problems caused by unauthorized modification or attempted repair.

2．Transportation Security

- No heavy stress, violent vibration or contact with water is allowed during transportation, storage and installation.
- Please use the original packing material (or the material of the same quality) when you ship it back to the manufacturer.

3．Installation

- Do not apply power to the product before completing installation.
- Do not put object(s) on the product.

4．Environment

- This product should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
- Please keep it away from environments that contain electromagnetic radiation or objects that produce it.
- Please keep sound ventilation around the device at all times.
- Do not allow the water and other liquid to penetrate into the device if casing has been compromised. This series product complies with the IP66 standard specified in the Degrees of Protection Provided by Enclosure.
- Please make sure the CCD (CMOS) component is away from the radiation of the laser beam device. Otherwise it may result in CCD (CMOS) optical component damage.

5. Daily Maintenance

- Current series product has no power button. Please unplug all corresponding power cables before your begin installation or daily maintenance work.
- Please keep the dustproof cap back to protect the CCD or CMOS part if the device does not work for a long time.
- Do not touch CCD (CMOS) component. You can use the blower to clean the dust on the surface of the device. You can use the dry cloth with some alcohol or mild detergent to clear if necessary.
- Do not use volatility solvent such as the benzene or thinner, or detergent with strong abradability. It may result in lens damage or it may adversely affect the device performance.

- If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device.

6. About Accessories

Always use all the accessories recommended by manufacturer.

Before installation, please open the package and check that all the components are included in the package. Contact your local retailer ASAP if something is missing in your package.

1 Features and Functions

1.1 General Introduction

This 4-inch analogue intelligent PTZ dome camera gives you 23X optical zoom to scrutinise far away objects closer. It adopts a new configuration design and is easy to install during project construction. This is a digitally intelligent product that can provide you with vivid video visuals.

The design aesthetics also allows it to be incorporated into many modern settings. At the same the shape and materials provides it with the robustness to survive a variety of weather conditions. Internal technology allows for the PTZ rotation speed to be automatically adjusted according to lens zoom speed. It supports various languages, real-time clock function, blind spot recognition and protocol auto recognition. It also gives you a full 360° continuously pan, 92°tilt and 180° auto flip.

1.2 Features

This PTZ speed dome has the following features:

1.2.1 On-Screen Menu

- This series product menu supports multiple languages.
- It is easy for you to view dome information and configure dome, camera parameters.

1.2.2 Proportional Pan and Tilt

- This function keeps the image from moving too fast when there is a large amount of zoom.
- The PTZ camera continually decreases or increases pan and tilt speeds in proportion to depth of zoom. When zooms speed increases, the camera moving speed becomes slow. When zooms speed decreases, the camera moving speed becomes fast.

1.2.3 On-screen Tips

Here you can view:

- Dome title and system version (Software and hardware)
- Dome system temperature. (Optional. You can disable this function)
- Dome pan/tilt coordinates, preset ID.

1.2.4 Preset Setup and Call

Preset function is to save the address information (such as PTZ pan/tilt, focus and etc) to the memory so that you can quickly adjust the dome and PTZ to the correct position.

1.2.5 Auto Scan

Camera scans back and forth regularly along the horizontal field. Here you need to set left and right limit and scan speed. You can set 5 scanning paths.

1.2.6 Auto Touring

Add addresses into a routine in a desired order and then set time and stop duration for each address. The dome will begin an auto touring between these addresses. Each touring path can contain max 32 presets.

1.2.7 Auto Pattern

Memorises dome operations such as pan, tilt, and zoom to repeat. You can call it to repeat the previous operation.

1.2.8 Privacy Masking

Privacy masking is a user-defined, four-sided area that cannot be viewed by you. The masking area will move with pan and tilt functions and automatically adjust in size as the lens zooms.

1.2.9 Auto Flip

As long as you continue to hold the keyboard joystick in the down position, the dome rotates 180 degrees and repositions itself for uninterrupted viewing of any subjects that passes directly beneath the dome.

1.2.10 Self-diagnosis

There is a self-diagnosis procedure when camera boots up.

- Tilt and vertical engine check
- Camera diagnostics

1.2.11 Day/Night Mode (B/W & Color Mode)

Auto/manual switches in low illumination.

- Auto: camera will automatically adjust CCD light level.
- Manual: use menu or function keys to select auto/manual/schedule settings.

This function needs the speed dome driver (camera) supported.

1.2.12 Auto Focus

Supports auto focus function.

1.2.13 Backlight Compensation

Balance the brightest and darkest sections of a scene to produce a more vivid picture.

1.2.14 Pan Tilt and Zoom

Supports zoom in and zoom out during tilt and pan movement. In this period focus and iris are both in auto mode to get vivid image.

1.2.15 3D Intelligent Location

It supports the 3D intelligent positioning function, where the camera can auto track to the specified zone.

1.2.16 Idle Status

When there is no available order, you can use menu to set dome idle status after specified duration.

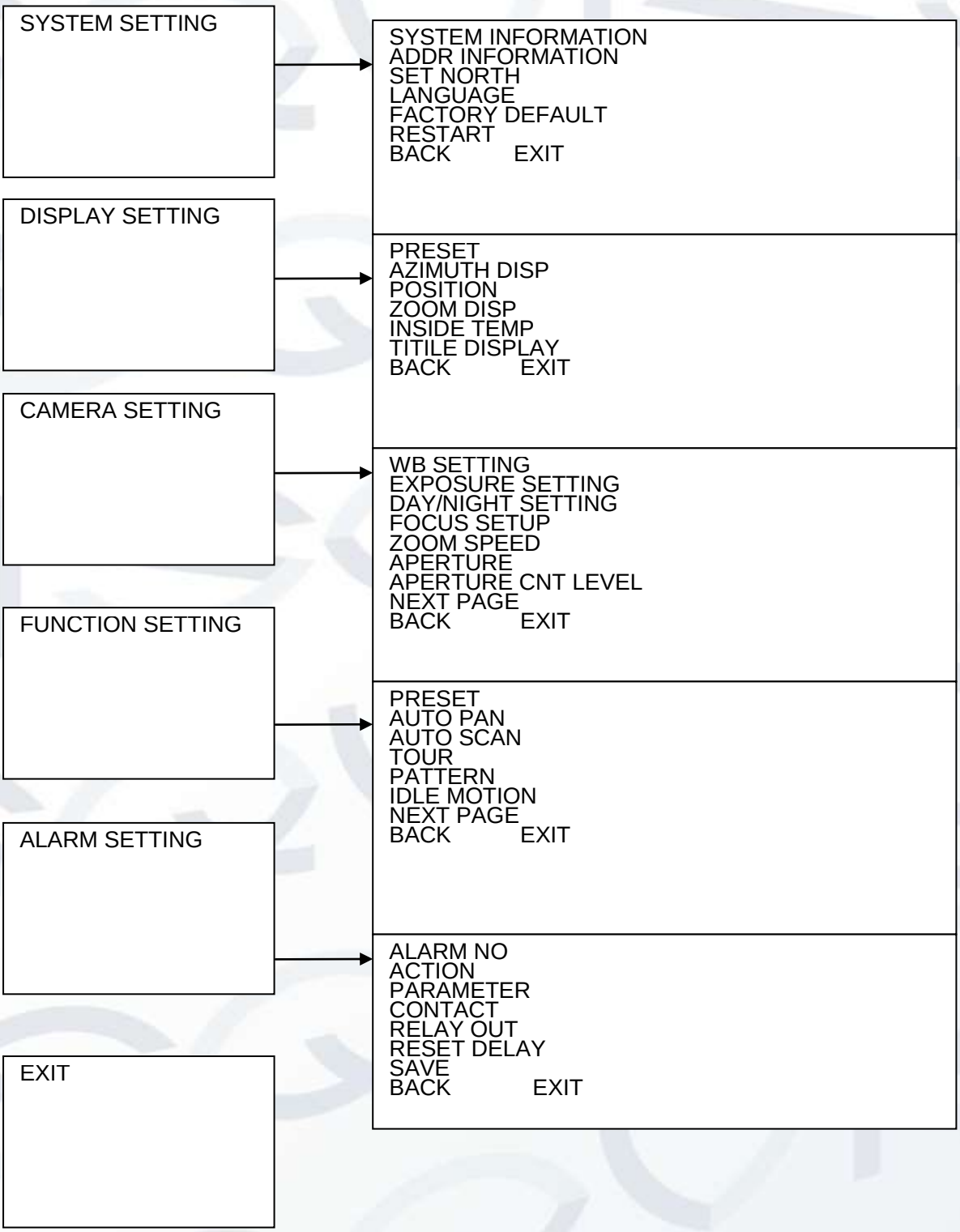
1.2.17 Image Stabilizer/Flip

You can enable image stabiliser function and flip in the menu. When there is vibration, this I.S. function can guarantee video stability, and when it flips, you can view the video more clearly.

2 Menu

2.1 Screen Menu Index

Note: ERR means current setup is invalid; you need to restores speed dome factory default setup. Slight difference may be found due to different series.

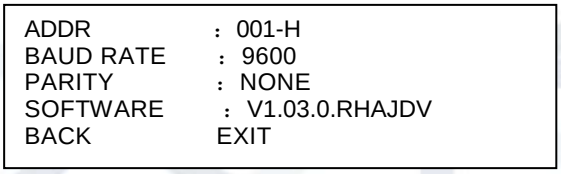


The above diagram illustrates the overall structure of the speed dome setup menu.

Note:

- ERR means current setup is invalid.
- Please make sure all the cable connections are correct.

2.2 Self-diagnosis System Information



After installation, please connect speed dome to power. The system goes on a self-diagnosis routine, and then it pops up the above interface to show the system information.

If there is anything wrong during the self-diagnosis, system pops up error code.

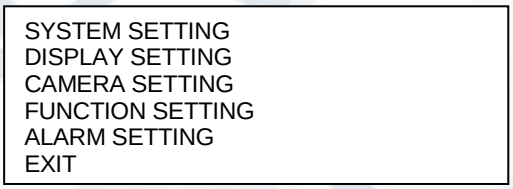
The above interface disappears after speed dome received the first command (or the display time lasts for 4minutes.)

- ADDR: Here you can view dome address information. For example, 001-H, 1 is the address number, -H is hard address mode. –S is software address mode.
- Baud rate: Dome communication baud rate.
- Parity: Communication parity bit format.
- Software: Dome PTZ software version.

When you are using the control keyboard or the matrix host to control the device, please make sure the control parameter of the keyboard or the matrix host is the same with the speed dome OSD (including address, baud rate, parity). Please make sure the cable connection is OK.

2.3 Main Menu

You can open the PTZ camera menu via control keyboard, matrix, or speed dome control terminal.



- SYSTEM INFORMATION：Dome self-diagnosis information, address information, system time setup, set north direction, language, factory default setup, reboot and so on.

- DISPLAY INFORMATION: Display dome preset title, azimuth display, time, direction, dome internal temperature information.

- CAMERA PARAMETERS：Display dome white balance setup, camera function setup, day/night setup, shutter setup and etc.

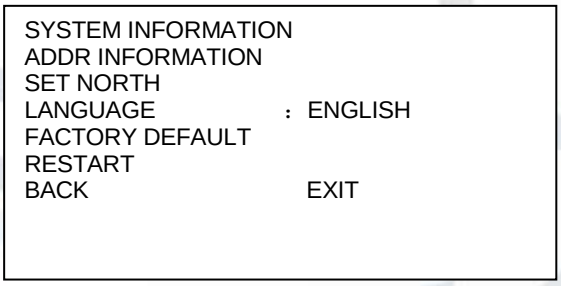
- FUNCTION SETTING: Set preset, pan, scan, auto cruise, pattern, idle function, time task and privacy mask function.
- ALARM SETTING：Set dome alarm number, action, contact, replay out, reset time, etc.
- EXIT: Log out of the system menu.

2.4 Menu Operation

In the PTZ camera main menu, you can use the left/right button on the keyboard or in the camera's terminal menu to configure the system menu. Before setup, please move the cursor to the current item you want to configure.

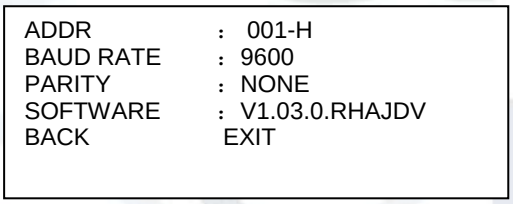
- In main menu, please click confirm button to go to the sub menu or use left/right key to configure setup.
- Use up/down button to select back option and then click confirm button to go back to the previous menu.
- Use up/down button to select exit option and then click confirm button to log out system menu.
- All setups here will not be lost when you encounter a power failure.

2.4.1 System Information



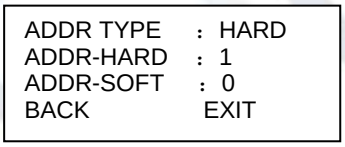
- SYSTEM INFORMATION: Move the cursor to SYSTERM INFORMATION and then click the confirm button to go to the third submenu.
- ADDR INFORMATION: Move the cursor to SITE INFORMATION and then click confirm button to go to the third submenu.
- SET NORTH: Set the camera's benchmark direction so that you can know the angle between the benchmark and then current location. Please move the cursor to the option and then click confirm button until you see O.K. option. Now you have set the north direction.
- LANGUAGE: The dome menu language. There are several languages for you to select. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- FACTORY DEFAULT: Restore dome factory default setup. Please move the cursor to the option and then click confirm button until you see O.K. Now you can see the IP dome begin rebooting to restore factory default setup.
- RESTART: Reboot the camera.
- BACK: Go back to the previous menu.
- EXIT: Log out of the system menu.

2.4.1.1 System information



Move the cursor to SYSTEM INFORMATION and then click the confirm button, you will see the above interface. Here you can view the dome's basic information.

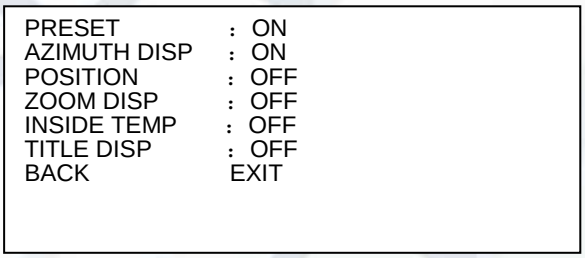
2.4.1.2 Address Information



Move the cursor to SITE INFORMATION and then click confirm button.

- ADDR TYPE: There are two options: soft and hard. Please use the left/right button on the keyboard or in the speed dome terminal menu to set. Please click the OK button to confirm
- ADDR-HARD: It is an address you can set in the dial switch. You cannot modify it through the software.
- ADDR-SOFT: You can set address via software. It is to say, you can use menu to modify dome address. The value ranges from 0 to 255.
- BACK: Go back to the previous menu.
- EXIT: Log out system menu.

2.4.2 Display Setting



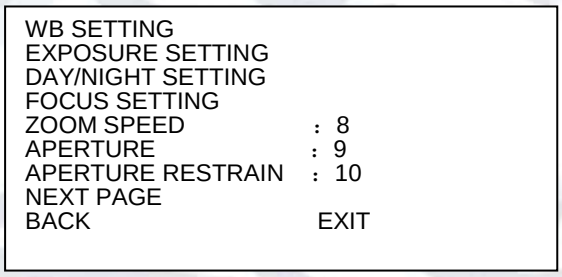
Move the cursor to DISPLAY SETUP and then click confirm button, you can go to the third submenu. Please use the left/right button on the keyboard or in the speed dome terminal menu to set. After completing the setup, please click the save button to save current setup.

- PRESET TITLE: Display dome preset title or not. Please use the left/right button on the keyboard or in the speed dome terminal menu to set. You can go to Function Setup->Preset section to set corresponding preset value and preset title.

- AZIMUTH DISP: Displays the cameras current coordinates or not. Please use the left/right button on the keyboard or in the speed dome terminal menu to set
- POSITION: Displays the angle between the benchmark and then current location. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- ZOOM DISP: Display speed dome zoom speed or not. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- INSIDE TEMPERATURE: Display dome internal temperature or not. There are three options: **℃/F/Off.** Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- TITLE DISPLAY: Here you can set to display speed dome position information and etc. You can use the speed dome control terminal to set the detailed title information. Please use the left/right button to set.
- BACK: Go back to the previous menu.
- EXIT: Log out system menu.

2.4.3 Camera Setting

Before the operation, please make sure your camera supports the corresponding function.

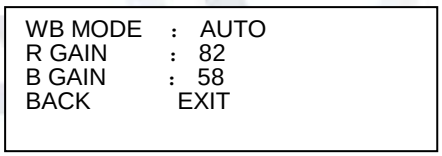


Move the cursor to CAMERA SETTING and then click confirm button, you can go to the submenu.

- WHITE BALANCE SETUP: Move the cursor to current option and then click confirm button, you can go to the third menu.
- EXPOSURE SETTING: Move the cursor to current option and then click confirm button, you can go to the third menu.
- DAY/NIGHT: Set day/night mode. Move the cursor to current option and then click confirm button, you can go to the third menu. There are three options: auto/manual/off. Please use the left/right button on the keyboard or in the speed dome terminal menu to set. Please make sure your product supports this function.
- FOCUS SETTING: This is to set the camera focus mode, focus limit, etc. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- FOCUS LIMIT: This is to set the distance between the camera and the object. It can prevent the focus distance being too small, which may result in an unclear image. At the same time, you can change the distance to change the focus speed.
- ZOOM SPEED: The bigger the value, the faster the speed. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- APERTURE: This is to adjust the lens to achieve clearer video footage. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- APERTURE RESTRAIN: System can auto reduce the aperture to lower the video noise when it is in a poorly illuminated environment. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.

- NEXT PAGE: This includes the following options: DIGITAL ZOOM, PICTURE FLIP, FREEZE FUNCTION, CAMERA FACTORY DEFAULT SETUP and CAMERA RESTART. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

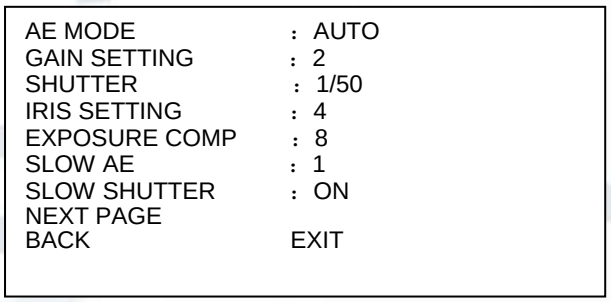
2.4.3.1 White Balance Setup

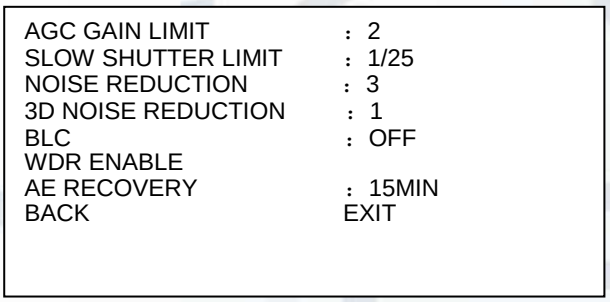


Move the cursor to WHITE BALANCE MODE and then click confirm button, you can then go to the submenu.

- WHITE BALANCE MODE: Set white balance adjustment mode. There are several modes such as auto, auto trace white balance, indoor, outdoor, and manual. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- R GAIN: Before you set R GAIN option, please note it will not be in auto mode. Please use the left/right button on the keyboard or in the camera's terminal menu to set.
- B GAIN: Before you set B GAIN option, please note it will not be in auto mode. Please use the left/right button on the keyboard or in the camera's terminal menu to set.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.4.3.2 Exposure Setting



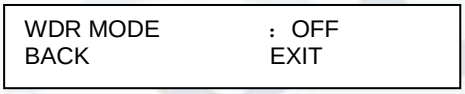


- AE MODE: This is where you can set the camera exposure mode. This includes: auto/manual/AV (iris priority)/TV (shutter priority). Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
    - Auto: This becomes valid after you set the exposure compensation, backlight compensation (BLC), slow shutter, wide dynamic region (WDR).
    - Manual: This becomes valid after you set the gain setting, shutter, iris setting, wide dynamic region (WDR).
    - AV: This becomes valid after you set the exposure setting, iris setting, wide dynamic region (WDR).
    - TV: This becomes valid after you set the shutter setting, exposure compensation, wide dynamic region (WDR).
- GAIN SETTING: Please use the left/right button on the keyboard or in the speed dome terminal menu to set.

- SHUTTER: Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- IRIS SETTING: Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- EXPOSURE COM: Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- SLOW AE: In a strongly lit environment, you can lower the camera exposure speed when capturing the image so you can enhance the definition. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- SLOW SHUTTER: In a poorly illuminated environment, you can lower the cameras auto exposure time when capturing an image and enhance the definition. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- NEXT PAGE: This includes: GAIN MAX LIMIT, SLOW SHUTTER LIMIT, NOISE REDUCTION, 3D NOISE REDUCTION, BLC, WDR, BACK, and EXIT. Move the cursor to the item and then click the left/right button to set.
    - AUTO GAIN LIMIT: Please click the left/right button to set.
    - SLOW SHUTTER LOW LIMIT: Please click the left/right button to set.
    - NOISE REDUCTION: There may be noise when the camera is monitoring in low illumination environments. You can use the digital filter to process the noise to guarantee the clear video.
    - 3D NOISE REDUCTION: This is to set the speed dome 3D noise reduction setup. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
    - BLC: It is an abbreviation for Back Light Compensation. The System can compensate the object in the dark light to achieve a clear video. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
    - WDR ENBALE: It is an abbreviation for wide dynamic region. Please make sure your camera supports current function. This function can adjust the video brightness when the contrast between the strong light and the dark light is too high. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
    - AE RECOVERY: Manually click the “+” and “-“button on the PTZ interface, the system can resume previous exposure value after specified time (The exposure value does not resume if this function is off.).
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.4.3.3 WDR

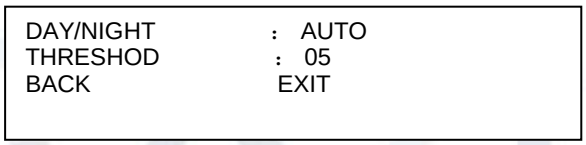
Move the cursor to WDR and then click confirm button, you can then go to the submenu.



- WDR MODE: Click Left/right button to enable/disable camera WDR function.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

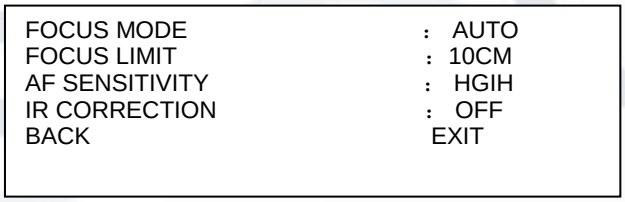
2.4.3.4 Day/Night Setting

Move the cursor to DAY/NIGHT SETTING and then click confirm button, you can then go to the submenu.



- DAY/NIGHT: Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- DAY TIME: Current setup becomes valid when day/night mode's time is set. Move the cursor to the DAY TIME item and then click confirm button to go to setup. Please use the user up/down button to set the value. After completing the setup, please click confirm button to exit and move the cursor to 'Save' button to save current setup.
- NIGHT TIME: Current setup becomes valid when day/night mode's time is set. Move the cursor to DAY TIME item and then click confirm button to go to setup. Please use the user up/down button to set the value. After completing setup, please click confirm button to exit and move the cursor to save button to save current setup.
- THRESHOLD: The speed dome can switch the day/night mode when it reached the threshold you set here.
- SAVE: This button is for DAY TIME and NIGHT TIME setup. After you set the day time (or night time), you need to move the cursor here and then click confirm button to save current time setup. For other setups, you do not need to use this button.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

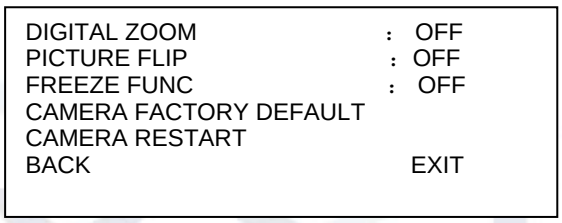
2.4.3.5 Focus Setup



- FOCUS MODE: This is to set the camera focus mode. It includes several modes such as auto, manual, semiautomatic, etc.
- FOCUS LIMIT: This is to set the camera focus limit. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- FOCUS SENSITIVITY: This is to set the camera focus sensitivity. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- IR LIGHT FOCUS CORRECTION: This is to set the camera IR light focus correction. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

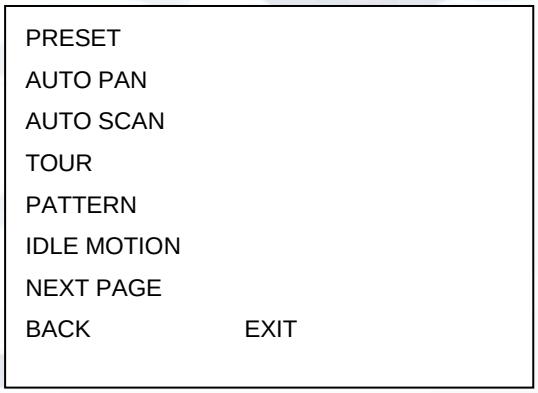
2.4.3.6 Next Page

Move the cursor to NEXT PAGE and then click confirm button, you can go to the submenu.



- DIGITAL ZOOM: You can use the left/right button to enable/disable the digital zoom function.
- PICTURE FLIP: There are two options: on/off. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- FREEZE FUNCTION: This function allows the system to go from one preset to another preset, without showing the video during the PTZ movement. There are two options: on/off. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- CAMERA FACTORY DEFAULT SETTING: Move the cursor to current item and then click confirm button to restore factory default setup.
- CAMERA RESTART: Move the cursor to current item and then click confirm button to reboot the camera.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.4.4 Function Setting

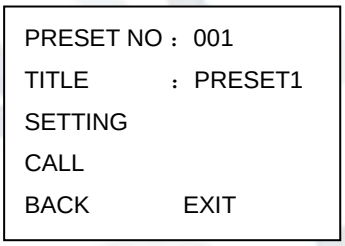


Please go back to main menu and move the cursor to FUNCTION SETTING, click confirm button. You can see the above interface.

- PRESET: Move the cursor to PRESET and then click confirm button to go to the third submenu.
- AUTO PAN: Move the cursor to AUTO PAN and then click confirm button to go to the third submenu.
- AUTO SCAN: Move the cursor to SCAN and then click confirm button to go to the third submenu.
- TOUR: Move the cursor to AUTO TOUR and then click confirm button to go to the third submenu.
- PATTERN: Move the cursor to PATTERN and then click confirm button to go to the third submenu.
- IDLE FUNCTION: Move the cursor to IDLE FUNCITON and then click confirm button to go to the third submenu.

- NEXT PAGE: This includes: PRIVACY MASKING, PTZ SPEED, SET ZERO, POWER UP, MENU PASSWORD, MENU IDEL, PTZ AUTO STOP, and HEATER. Move the cursor to the item and then click the confirm button to set. .
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.4.4.1 Preset Setup



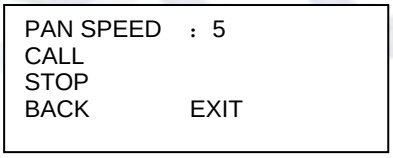
Move the cursor to PRESET button and then click confirm button to go to set interface.

- PRESET NO: Please use left/right key to modify preset number. The different protocols support different preset values.
- TITLE: Title text is the label used for you to identify the camera. System will automatically name a title for the camera.
- SETTING: Please input preset number first and then select the monitor zone. Please move the cursor to setting and click the confirm button. The system will pop up a message: PRESET: *** Here *** means preset number. And the SETTING column pops up an OK. Now you successfully added a preset. Please note, you need to enable **display preset title function** first (Main menu->display setting->preset title). Repeat the above procedures to set more presets. When you want to modify a preset, you can input the preset number you want to modify and then follow the above steps to set the preset.
- CALL: This is to recall a preset. Move the cursor to 'PRESET NO' and then input a corresponding preset value. Then move the cursor to CALL and then click confirm button to go to a preset.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

For PELCO protocol user, please refer to the following special functions:

- **Call preset:** Call preset **28** or preset **95** to go to dome menu. Call preset **29** or preset **99** to go to scan. Call preset **24** or preset **81** to go to pattern. Call preset **25** or preset **82** to go to cruise (tour). Call preset **30** or preset **96** to stop scan or pattern. Call preset **31** or preset **83** to begin rotation. Call preset **33** to enable PTZ 180 degrees rotation. Call preset **34** to set dome position as **0**.
- **Set preset:** Set preset **26** or **92** to set scan left limit. Set preset **27** or **93** to set scan right limit. Set preset **22** or **79** to begin recording. Set preset **23** or **80** to stop recording.

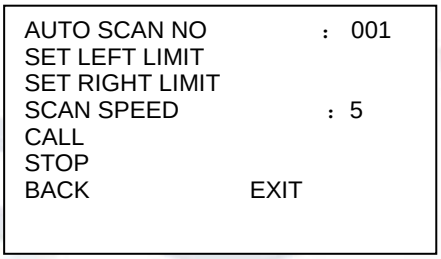
2.4.4.2 Pan



Move the cursor to PAN button and then click confirm button to go to setup interface.

- PAN SPEED: Set dome rotation speed. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- RUN: Move the cursor to call item and then click confirm button. The dome begins 360 degrees continuous rotation.
- STOP: Highlight stop item and then click confirm button. The dome stops rotation.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

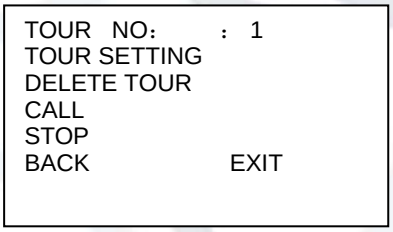
2.4.4.3 Scan



Move the cursor to the SCAN button and then click confirm button.

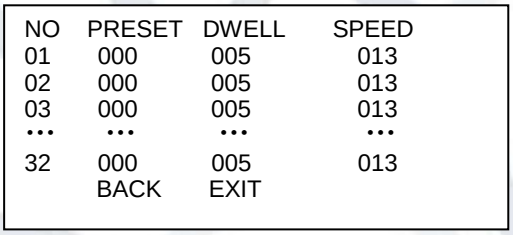
- AUTO SCAN NO：This is to set the auto scan number. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- SET LEFT LIMIT：This is to set the camera left address. Click confirm button to save current setup.
- SET RIGHT LIMIT：This is to set the camera right address. Click confirm button to save current setup.
- SCAN SPEED: Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- CALL: Please input auto scan number first, and then please move the cursor to CALL and click confirm button to activate auto scan function.
- STOP: This is to terminate auto scan function.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.4.4.4 Tour



Move the cursor to highlight TOUR item and then click confirm button to go to set interface.

- TOUR NO ： This is to set the tour number. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- TOUR SETTING: Move the cursor to the TOUR setting item and then click confirm button. You will see the following interface:



Here you can add or remove the preset, and set the corresponding dwell time and call speed.

- DWELL: This is to set the dwell time. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- SPEED: Here you can set the speed value.

When you move the cursor to one tour number, you can use the left/right button to turn the page.

When you move the cursor to one tour number, please click the confirm button to set the tour. Please use up/down button to set preset number, dwell time and speed. Use the left/right button to go to the next tour. Click the confirm button to exit the setup. After you completed the setup, move the cursor to back button to go to the previous interface.

- DELETE TOUR：This is to delete a tour. Input tour number in TOUR NO and then move the cursor to DELETE TOUR, click confirm button to delete.
- CALL: This is to activate tour. Input tour number in tour NO and highlight CALL, click confirm button to activate tour.
- STOP: This is to terminate touring.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.4.4.5 Pattern

PATTERN NO	： 1
PROGRAM START	
PROGRAM STOP	
CALL	
STOP	
BACK	EXIT

The Pattern function can store a PTZ operation to the camera's memory, which can include when you need camera to focus zoom either in or out. From the start position, the camera begins auto movement repeatedly.

- PATTERN NO: This is to set the pattern number. Please click left/right key to configure.
- PROGRAM START: This function will initiate pattern. An 'OK' icon pops up on the screen to prompt you that system has begun memory pattern.
- PROGRAM STOP：This is to set the pattern stop point. After camera has completed all movements, adjust the cursor to PROGRAM STOP and then click the confirm button. You have now set one pattern. The System pops up an 'OK' icon to prompt you that system has memorised one pattern.
- RUN：This is to activate a pattern. Input pattern number, move the cursor to RUN and click confirm button, system begins running pattern.
- STOP: This is to stop current pattern. Input pattern number, move the cursor to STOP and click confirm button. System stops current pattern.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

Note:

- The dwell time between two orders should be less than one minute, otherwise system will set to default value as one minute.
- After click PROGRAM STOP, do not click CALL button before icon "●" disappears completely.
- Any manual operation during the pattern procedure will terminate current dome pattern operation.

2.4.4.6 Idle Motion

IDLE MOTION	： OFF
IDLE TIME	： 10MIN
IDLE MOTION	： NONE
PARAMETER	： NONE
BACK	EXIT

When there is no available command for a specified time, the camera automatically uses the previous set of functions.

- IDLE MOTION：There are two modes: ON/OFF. Please use left/right key to set.

- IDLE TIME: System idle period. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- IDLE MOTION：There are five functions you can select: NONE/PRESET/SCAN/TOUR/PATTERN. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- PARAMETER: This is to set the idle motion SN. System can implement the corresponding action when it is idle for the specified period. Click the left/right button to set.
- SAVE：Move the cursor to SAVE and click confirm button to save current setup.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.4.4.7 Next Page

Move the cursor to the NEXT PAGE and then click the confirm button, you can go to the third menu to set the PTZ SPEED, POWER UP and etc.

PRIVACY MASK	
PTZ SPEED	：2
SET ZERO	
POWER UP	
MENU IDLE	：1M
PTZ AUTO STOP	：15S
BACK	EXIT

- PRIVACY MASK: Here you can set the privacy mask number, etc. This includes the third menu. Please move the cursor to the current item and then click the confirm button to go to the next interface.
- PTZ SPEED: This is to set the PTZ speed. Please use the left/right button to set.
- SET ZERO: Please move the PTZ to the horizontal coordinates, click OK button to confirm.
- POWER UP: This is to set the PTZ action when the speed dome boots up. Click the confirm button to go to the next interface to set.
- MENU IDLE: If the current setup is ON, once you open the menu and leave it idle for specified period, the menu may automatically disappear. If the current setup is OFF, the menu is always there and will not disappear. Please use the left/right button to set.
- PTZ AUTO STOP: The speed dome will stop all the PTZ operations when there is no command for the specified time. It includes various setups. Please use the left/right button to set.
- TEMPERATURE: It includes: on/off/auto (default).
- BACK: Go back to the previous menu.
- EXIT: Log out the system menu.

Privacy Mask

1. Move the cursor to PRIVACY MASK and click confirm button, system goes to privacy mask setup interface.

PRIVACY NO	：1
PRIVACY MASKING	：OFF
SETTING	
BACK	EXIT

RESIZE	： ↑
SAVE	
BACK	EXIT

Note:

- For security reasons, please set privacy zone a little bit larger than the privacy object size.
- Each time, after modifications you need to move the cursor to SAVE button and then click confirm button to get all setup activated. Otherwise, privacy zone may not move correspondingly with the object.

2. Please enter privacy mask menu.

3. Move the cursor to PRIVACY NO, please use left/right key to set different privacy zones.

4. For example, shift to 001 section and then move the cursor to SETTING.

5. Secondly, click OK button to go to the setup interface. Now there is a privacy zone in the screen centre. Operate PTZ to move the camera screen so that the centre of the object you want to shield is overlaying with the centre of the screen.

6. Thirdly, move the cursor to RESIZE and then click left and right key to adjust privacy zone direction and size.

7. Fourthly, move the cursor to SAVE and then click confirm button to exit. Please note you need to click SAVE button to save current privacy mask setup so that the privacy mask region can move along with the PTZ movement to always cover the object you want to shield.

- PRIVACY NO：This is to set the privacy mask zone. Please use the left/right button on the keyboard or in the speed dome terminal menu to set. You can call corresponding privacy mask zone numbers if you have successfully set one up.
- PRIVACY MASKING: There are two settings: on and off. Please go to the corresponding privacy mask zone and click left/right button to set.
- RESIZE：This is to adjust the privacy zone size. Move the cursor to current item and use the left/right button on the keyboard or in the speed dome terminal menu to set .Please continue pressing direction button to widen or narrow zone size. ← is to narrow the horizontal width and → is to widen the horizontal width. ↑ is to widen vertical height and ↓ is to narrow the vertical height.
- SAVE：Here is to save user setup.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

Power Up

Move the cursor to the POWER UP item and then click the confirm button, you can go to the fourth menu.

POWER UP	: AUTO
PARAMTER	: OFF
BACK	EXIT

- POWER UP: It is to set the PTZ operation when the speed dome boots up. The option includes: NONE/AUTO/SCAN/PRESET/PATTERN/TOUR. Please use the left/right button to set.

- PARAMTER: Here you can set the serial number of the corresponding operation such as the scan, preset, pattern, tour. Please use the left/right button to set.
- BACK: Go back to the previous menu.
- EXIT: Log out the system menu.

2.4.5 Alarm Setup

ALARM NO	: 1
ACTION	: NONE
PARAMETER	: NONE
CONTACT	: N/O
RELAY OUT	: OFF
RESET DELAY	: 3S
SAVE	
BACK	EXIT

Move the cursor to highlight ALARM SETTING button and then click confirm button.

- ALARM NO: This is to set the alarm input. Alarm input value ranges from 1 to 2. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- ACTION: Action on alarm function. It includes NONE/PRESET/AUTO SCAN/TOUR functions. Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- PARAMETER: This is to set the corresponding alarm operation such as scan/preset/tour. Please use the left/right button to set.
- CONTACT：You can set system activation operation once alarm has been triggered. There are two alarm signal mode: normal open (N/O) and normal closed (N/C). Please use the left/right button on the keyboard or in the speed dome terminal menu to set.
- RELAY OUT: This is to the set relay alarm mode and reset time. There are several options: **off/1→5S.**
- RESET DELAY: This is for you to set the alarm reset time. Please use the left/right button on the keyboard or in the speed dome terminal menu to set: 3 seconds/10 seconds/30 seconds/60 seconds /120seconds. The dome will go back to previous setup after alarm acknowledgement.
- SAVE：Move the cursor to SAVE and then click confirm button to save current setup.
- BACK: Go back to previous menu.
- EXIT: Log out system menu.

2.5 Abnormal Phenomenon Operation

2.5.1 Restore to Factory Default Setup

From Main menu-> SYSTEM INFORMATION, move cursor to FACTORY DEFAULT and click confirm button. Camera will reboot and all the setups restore to factory default setup.

2.5.2 Irregular PTZ Movement

From menu to SYSTEM INFORMATION, move cursor to RESTART and click confirm button. This reboot will not modify all activated setup (such as preset, tour and pattern)

3 Cable Connection

3.1 Combination Cable Connection

The camera's combination cable includes network, audio/video cable port, RS485 connection port, alarm input and output port connectors. Please refer to the label for detailed information.

- **Please note the Internet Explorer 6 does not support alarm upload function. Please use Internet Explorer 7 or higher.**

Name		Function
POWER GND		Power port. Connect to the power cable. GND: ground end.
485A 485B GND		RS485 remote control.
AUDIO	OUT	Audio output port.
	GND	Ground port.
	IN	Audio input port.
VIDEO	GND	Ground port.
	OUT	Video output port.
LAN		Network port. Connect to network cable.
ALARM IN		• Two alarm input channels. This is to receive relay signal from the external alarm source. You can go to dome menu to activate specified preset or pattern. • When the activation mode is NO (Normal Open), dome alarms when there is low voltage. High voltage will not activate the alarm. • When the activation mode is NC (normal close), dome alarms when there is high voltage. Low voltage will not activate the alarm. Note: ● Dome alarm input message is ground mode. ● Dome alarm input signal has two modes: normal open and normal close. ● **For the default setup: 2-channel alarm input and 7-channel alarm output is optional.**
	GND	Alarm input ground end.
ALARM OUT	1	• One alarm output channel. When there is an alarm from current channel, system activates relay or not. • Alarm output relay default setup is NO. • **For the default setup: 1-channel alarm output and 2-channel alarm output is optional.**

4 FAQ

4.1 Daily Maintenance

Please clean dome cover regularly to get continue to receive vivid images. Handle the cover with care. Use water to wash. Don't use cloth to clean. Use mild detergent to clean if there is too much dust.

Note:

The sweat from your hand may erode plating surface, your nail may scrape dome cover resulting in blur image. Please take care.

4.2 Problems and Solutions

SYMPTOM	CAUSE	SOLUTION
1) No self-diagnosis, no video signal when I connect power to the camera.	Red LED is not on. ● Your power supply does not apply any power. Or connection is loose. ● No power from mains or transformer problem/malfunction.	● Check power is connected or properly earthed. ● Check power supply condition or check transformer.
	Red LED light on the power board is on ● Power supplying is too low ● Something wrong with power supply componentry.	● Use multi-meter to check dome load. ● Please contact retailer to replace power board.
2) No self-diagnosis occurs. Abnormal noises heard coming from camera.	Power supply is inadequate.	Replace power supply.
	Mechanical malfunction.	Seek electrical engineer's help.
3) Video signal loss occurs during high speed rotation.	Power supply is not sufficient	Replace power supply.
4) Video signal is not successive	Circuit connection is loose.	Reset connection correctly.
	Video switch or power problem	Seek electrical engineer's help.
5) Video image is not clear.	Focus function is set in manual mode.	Control manually.
	Dome cover is dirty.	Wash dome cover
6) During camera switch, there is a tilt movement in the monitor.	Camera power is not in the same Phase.	When several domes are connected to one transformer, please connect the transformer output cable to the domes' same side.

Note

- **This manual is for reference only. Slight difference may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **Please visit our website or contact your local service engineer for more information.**

For more information about our DVRs and available cameras & accessories, please visit our website:

www.adata.co.uk

Alternatively scan this QR code with your smart phone to be directed instantly to our website: